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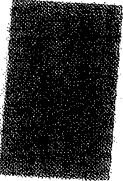
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G. B. HECKEL, *Secretary.*



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PART 2

OFFICIAL DIGEST

Index



Nos. 172 to 275

January, 1938 to December, 1947

APRIL, 1950

Federation of Paint and Varnish Production Clubs

1524 Chestnut St.

Philadelphia, Pa.

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Following the recommendation of the Executive Committee and as a sequence to the first Index for the OFFICIAL DIGEST, covering issues from 1919 through 1937, the Publications Committee has reviewed the technical information which was published during the succeeding decade and has prepared this Decennial Index for the period 1938 through 1947.

For convenience, the material has been classified with respect to subject matter and catalogued according to authors which comprise the two main sections. Comments which appeared under the Open Forum are referred to separately.

Prior to 1942, the technical papers presented by the Constituent Clubs at the annual meetings were published either as Scientific Section Circulars of the National Paint, Varnish and Lacquer Association or as Technical Proceedings of the Federation of Paint and Varnish Production Clubs. Therefore, this information is included in order that the Index may be complete and as useful as possible.

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- Basic Principles of Modern Protective Concealment for Civilian Establishments—P. Rodyenko, Nov., 1941, p. 479.
Blackout Paints—Concealment Paints—Dec., 1941, p. 508.
Camouflage Paints in Relation to Project No. 2 of the Visual Deception Committee—Philadelphia Production Club, Apr., 1942, p. 204.
Coating Material for Camouflaging Glass, May, 1941, p. 289.
Correlation of Accelerated Weathering with Exterior Exposure of Oil Type Camouflage Paints—D. H. Parker and F. Scofield, May, 1944, p. 220.
Project No. 9 Camouflage Paints, Oil Type—A. O. Allen, Jan., 1942, p. 13.
A Report by the Chicago Club on Project No. 2—Chicago Club, Apr., 1942, p. 208.
Report on Camouflage Paint Exposures—New York & Philadelphia Clubs, Dec., 1942, p. 619.
Revision of Specification T-1215A—D. H. Parker, May, 1943, p. 192.
Tint Retention in Olive Drab Paints—Baltimore Club, Nov., 1945, p. 442.

ENAMELS

- Chalk-Resistant Titanium Dioxides: Their Use in Enamels—D. H. Dawson, Apr., 1941, p. 188.
Durability of Exterior Finishing Varnishes over Pigmented Color Coats—Louisville Club, *Tech. Proc.*, 1940, p. 11.
The Effect of Common Organic Acids on the Viscosity of Enamels Containing Zinc Oxide—C.D.I.C. Club, Dec., 1944, p. 563.
The Effect of Pigment Concentration on the Gloss of Enamels—C. F. Pickett, June, 1939, p. 310.
Linseed Oil for Tung and Perilla Oil Replacement—W. A. Bush, Feb., 1941, p. 65.

Official Digest Decennial Index

- New Standards in Baking Finishes—H. F. Payne, Dec., 1945, p. 527.
The New Zinc Resinates, Including Their Use with Wood Oil Substitutes—E. Edelstein, Mar., 1940, p. 133.
Rutile Calcium Base Pigments—W. B. Anderson, June, 1941, p. 332.
Some Notes on Zinc Oxide in an Alkyd Vehicle—A. C. Eide and H. A. Depew, Mar., 1940, p. 152.
Stability of White Pigments in Colored Enamel Tints—Philadelphia Club, *Nat. Paint, Varnish, Lacquer Assoc., Sci. Sect. Cir. No.* 568, Nov., 1938, p. 271.
A Study of Anti-Oxidants and Anti-Skinning Agents—Cleveland Club, Dec., 1945, p. 484.
A Study of Oleoresinous Film Structure—R. C. Ernst and F. R. McQuilkin, *Tech. Proc.*, 1940, p. 213.
Study of the Stability of Green Pigments—Philadelphia Club, *Tech. Proc.*, 1940, p. 43.

HOUSE PAINTS

- Acicular Zinc Oxide—J. H. Calbeck, A. C. Eide, and M. K. Easley, Sept., 1941, p. 392.
Classification of House Paints as a Guide to the Study of Formulation—F. L. Browne, Jan., 1938, p. 18.
Conservation of Linseed Oil by Substitution—New York Club, Nov., 1944, p. 520.
Conserving Linseed Oil in House Paint—J. F. Broeker, Apr., 1943, p. 95, Disc., May, 1943, p. 154.
The Correlation of the Effect of Varying Climatic Conditions on Typical House Paints and Exterior Enamels—Pittsburgh Club, *Tech. Proc.*, 1941, p. 123.
The Correlation of the Effect of Varying Climatic Conditions on Typical House Paints and Exterior Enamels—Pittsburgh Club, Nov., 1943, p. 417.
Developments in Domestic Oils—L. J. Reizenstein, Apr., 1940, p. 197.
An Eight-year Test of Aluminum Primers on Wood—R. I. Wray, May, 1940, p. 263.
An Explanatory Letter—F. L. Browne, June, 1938, p. 298.
Exterior House Paints (Part 1)—A Review—S. R. Mountsier, Jr., Oct., 1944, p. 438.
The Function of Reactive Pigment in Exterior House Paint—K. Vetewinkel, Feb., 1946, p. 83.
House Paint Extenders—W. G. Vannoy, Dec., 1945, p. 558.
House Paint Formulation with Chalk-Resistant Titanium Pigments—W. H. Hoback, June, 1940, p. 304.
Linseed Oil Conservation in Exterior Paints—E. P. Peterson, May, 1943, p. 156, Disc., Apr., 1943, p. 93.
Modern Trends in House Paint Formulations—W. G. Vannoy, Apr., 1944, p. 177.
The New Zinc Resinates, Including Their Use with Wood Oil Substitutes—E. Edelstein, Mar., 1940, p. 133.
Paint Formulation Adjustments to Meet War Restrictions—D. W. Robertson, Mar., 1943, p. 69.
Physical Study of Primers in Two-Coat Paint Systems Applied to Southern Yellow Pine—L. Wilkins and P. Weber, Feb., 1947, p. 88.
The Pigmentation of Green Exterior Trim Paints—D. H. Parker, Oct., 1940, p. 380.
Postwar Exterior House Paints—S. Werthan, Mar., 1945, p. 123.
Postwar Exterior House Paints—L. H. Trott and S. Werthan, Jan., 1946, p. 26.

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Postwar Exterior House Paints—S. Werthan, Mar., 1947, p. 139.
Principles of Exterior Trim Paint Formulation—D. H. Parker and E. W. Cronin, May, 1942, p. 273.
Rutile Calcium Base Pigments—W. B. Anderson, June, 1941, p. 332.
A Study of Fire Resistant House Paints Made With Chlorinated Paraffin—C.D.I.C. Club, Nov., 1946, p. 512.
Study of Mildew—Dallas Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 403.
Symposium on the Use of Bodied Oils in Exterior House Paints—Philadelphia Club, Apr., 1943, p. 89.
Tall Oil in Surface Coatings—Golden Gate Club, Dec., 1945, p. 490.
What Every Paint and Varnish Chemist Should Know About Fungicides, Dec., 1945, p. 570.
Zinc Oxide—As You Like It—S. Werthan, May, 1941, p. 267.

PAINTS FOR METAL

Comments on Report by Dr. Carrick—D. G. Thuesen, Jan., 1945, p. 38.
Congo Resin—A. Skett, Jan., 1944, p. 24.
Developments in Domestic Oils—L. J. Reizenstein, Apr., 1940, p. 197.
Fire-Retardant Paints for Steel Surfaces—New York Club, Dec., 1943, p. 435.
Fire-Retardant Paint for Steel Surfaces, II—New York Club, Nov., 1945, p. 408.
High Heat Resistant Finishes (250°–800° F.)—A Progress Report—Houston Club, Dec., 1945, p. 482.
Improved Aluminum Paints—P. H. Faucett, Feb., 1941, p. 62.
Industrial Primer-Surfacers—D. Leever, Oct., 1947, p. 572.
Metal Primers—Surface Preparation of Metals—W. J. Greco, Mar., 1944, p. 115.
Methods of Formulating Zinc Yellow Metal Primers—W. F. Spengeman, May, 1946, p. 196.
Micalith—G in Primers—R. Shutt, Apr., 1945, p. 191.
Physical and Chemical Phenomena That Account For Red Lead's Metal Protective Ability—E. J. Dunn, Jr., Sept., 1946, p. 375.
Primers for Magnesium and Aluminum Alloys, II—Golden Gate Club, *Tech. Proc.*, 1940, p. 67.
Primers for Magnesium and Aluminum Alloys, III—Golden Gate Club, Dec., 1944, p. 602.
Primers for Non-Ferrous Metals, I—Golden Gate Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 93.
Progress in Natural Resin Research—A. Skett and J. H. Holzberger, June, 1941, p. 346.
Quantitative Adhesion Measurement of Coatings Before and After Exposure—New York Club, *Tech. Proc.*, 1940, p. 169.
A Study of the Factors Affecting the Adhesion of Paint Films on Metals—G. Selden and C. F. Prutton, *Tech. Proc.*, 1940, p. 231.
A Study of the Factors Affecting the Adhesion of Paint Films on Metals. Progress Report No. 2—G. Selden and C. F. Prutton, *Tech. Proc.*, 1941, p. 149.
A Study of Primers for Ferrous Metals in an Atmospheric Exposure—Progress Report No. 1—New England Club, Nov., 1945, p. 393.
A Study Of Primers for Ferrous Metals in an Atmospheric Exposure, Progress Report II—New England Club, Nov., 1946, p. 566.
A Study of Primers for Ferrous Metals in an Atmospheric Exposure. Progress Report No. III—New England Club, Dec., 1947, p. 745.

Official Digest Decennial Index

TRAFFIC PAINTS

- Center Line Paint Formulation—A. L. Zinsser, Feb., 1938, p. 81.
Performance Tests as an Aid in Maintenance of Traffic Paint Quality—
S. Werthan, Feb., 1942, p. 75.
Progress in Natural Resin Research—A. Skett and J. H. Holzberger,
June, 1941, p. 346.
Project No. 1 Traffic Paints (Consolidated Report)—P. L. Lotz, Jan.,
1942, p. 4.

INTERIOR FINISHES

- Coatings for Plastics—Pittsburgh Club, Nov., 1945, p. 421.
Conservation of Linseed Oil in Interior Paints—A. C. Goetz, May,
1943, p. 171.
Consolidated Report on Project No. 8 Standardizing Paints for In-
dustrial Piping—K. J. Howe, Jan., 1942, p. 9.
Developments in Domestic Oils—L. J. Reizenstein, Apr., 1940, p. 197.
The Economics of Fish Oil—L. Reizenstein, May, 1940, p. 252.
The Effect of Pigment Variation on the Properties of Flat and Semi-
Gloss Finishes—W. G. Armstrong and W. H. Madson, June, 1947,
p. 321.
Inert Pigments and Their Effects in Flat Paints—New England Club,
Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568,
Nov., 1938, p. 445.
Interior Architectural Finishes. Part I. A Review—H. K. Carter,
Oct., 1944, p. 428.
Interior Architectural Finishes. Part II. A Review—H. K. Carter,
Jan., 1945, p. 3.
Paint Formulation Adjustments to Meet War Restrictions—D. W.
Robertson, Mar., 1943, p. 69.
Pigmentation and Properties of Interior Finishes—W. G. Armstrong
and D. A. Piguet, June, 1945, p. 308.
A Practical Hiding Power Comparison of Lithopone and Titanium-
Calcium Pigments in Commercial Flat Wall Paints—J. C. Thomp-
son Jr., Nov., 1939, p. 423.
Practical Suggestions Relating to Flat Wall Paint Formulations—
R. E. Troutman, Sept., 1938, p. 368.
The Relation Between the Reflectance and Hiding Power of Flat Wall
Paints—Baltimore Club, *Tech. Proc.*, 1941, p. 3.
Rutile Calcium Base Pigments—W. B. Anderson, June, 1941, p. 332.
Soy Bean Oil in Flat Wall Paint—Chicago Club, *Tech. Proc.*, 1940, p. 3.
Soybean Oil in Interior Enamels—Chicago Club, *Nat. Paint, Varnish,
Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 389.
A Study of the Effect of Pigment Concentration on the Hiding Power
of White Pigments—Baltimore Club, *Nat. Paint, Varnish, Lacquer
Assn. Sci. Sect. Cir.*, Oct., 1939, p. 27.
A Study of Primer Vehicles—G. F. Beal and J. C. Konen, May, 1939,
p. 243.
A Study of the Use of Flushed Colors in Architectural and Industrial
Finishes—Detroit Club, *Nat. Paint, Varnish, Lacquer Assn., Sci.
Sect. Cir. No. 568*, Nov., 1938, p. 427.
Suggestions for Conserving Oils in Civilian Paint Products—J. A.
Lutz, May, 1943, p. 175.
Suggestions for Formulating Finishes Under Present Conditions—
W. T. Pearce, Apr., 1941, p. 202.
Titanium Dioxide Pigmentation Interior Finishes—W. E. Brophy, Feb.,
1946, p. 72.

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WATER AND EMULSION PAINTS

- An Attempt to Improve the Washability of Water Reducible Paints with Treated Pigments—Northwestern Club, Dec., 1947, p. 704.
Congo Resin—A. Skett, Jan., 1944, p. 24.
Continuous Film Producing Emulsion Paints—F. B. Steig, June, 1945, p. 300.
Emulsion Paints—J. W. Church, Feb., 1945, p. 69.
Interior Resin-Oil-Emulsion Paints—A. C. Elm & S. Werthan, Feb., 1943, p. 35.
Modern Waterpaints and Their Uses—L. Picou, Jr., Mar., 1941, p. 129.
Pigmentation and Properties of Interior Finishes—W. G. Armstrong and D. A. Piguet, June, 1945, p. 308.
A Quantitative Evaluation of the Effect of the Pigment-Binder Ratio on the Wet and Dry Opacity of Various Pigments in a Casein Vehicle—Baltimore Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 261.
The Use of Cellulose Derivatives in Water Paints—Philadelphia Club, Nov., 1945, p. 405.

LACQUERS

- Cellulose Esters and Ethers—J. K. Speicher, May, 1944, p. 288.
Cellulose Derivatives in Lacquer—C. Mater, Nov., 1939, p. 390.
Chalk-Resistant Titanium Dioxides: Their Use in Enamels—D. H. Dawson, Apr., 1941, p. 188.
Ethyl Cellulose—J. T. Skelley, Jan., 1939, p. 7.
High Solids Nitrocellulose Lacquers—W. Koch, Jan., 1945, p. 35.
Lacquer Paste Grinding on the Three Roller Mill—Toronto Club, *Tech. Proc.*, 1940, p. 115.
Nitrocellulose Brushing Lacquers—J. J. Coughlan and R. F. Wint, Dec., 1946, p. 694.
Progress in Natural Resin Research—A. Skett and J. H. Holzberger, June, 1941, p. 346.
Recent Developments in Nitrocellulose Lacquers—J. R. Yeager, June, 1947, p. 374.
Some Trends in Protective Coatings—D. R. Wiggam, Oct., 1947, p. 536.
Study of the Stability of Green Pigments—Philadelphia Club, *Tech. Proc.*, 1940, p. 43.
Suggestions for Developing Cold Check Resistant Lacquers—W. R. Marshall, Apr., 1938, p. 191.
3-1 High Solids Lacquer Test—Philadelphia Club, Dec., 1944, p. 581.

VARNISHES

- The Adhesion of Surface Coatings on Metals (IV)—R. L. Savage, W. Van Fischer, and C. F. Prutton, Sept., 1945, p. 344.
Alkali Resistance on V 17 Through V 21 Varnishes—Dallas Club, Dec., 1944, p. 583.
Aluminum Paints—A Review—I. R. Messer, May, 1945, p. 205.
Appearance and Smudge Resistance of Aluminum Paints—New York Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 331.
Behavior of Certain Oil-Resin Combinations—Baltimore Club, *Tech. Proc.*, 1940, p. 103.
Chemical Reactions in the Varnish Kettle—P. O. Powers, July, 1947, p. 429.
Congo Resin—A. Skett, Jan., 1944, p. 24.

Official Digest Decennial Index

- Do Varnish Films Lose Chemical and Water Resistance on Aging?—Northwestern Club, Dec., 1944, p. 590.
- Drying Oil Mono-Glycerides—C. W. A. Mundy, Jan., 1939, p. 2.
- Durability of Exterior Finishing Varnishes Over Pigmented Color Coats—Louisville Club, *Tech. Proc.*, 1940, p. 11.
- The Effect of Rubber Accelerators and Other Catalysts on the Heat Bodying of Vegetable Oils—Northwestern Club, *Tech. Proc.*, 1940, p. 23.
- Elimination of China Wood Oil from Varnish Formulation—Dallas Club, Nov., 1940, p. 439.
- Factors Influencing Dispersions of Pentaerythritol-Rosin Resins in Drying Oils—F. G. Oswald, Mar., 1946, p. 122.
- Floor Paint Vehicles—Golden Gate Club, Dec., 1946, p. 669.
- Laboratory Problems in the Insulated Wire Industry, Sept., 1945, p. 342.
- Lead in Enamel Vehicles: Variation of Resins—Golden Gate Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 345.
- Leafing Properties of Aluminum Vehicles—Pittsburgh Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 309.
- Lignin Liquor and its Uses in Protective Coatings—E. C. Alford, Feb., 1942, p. 66.
- Linseed Oil for Tung & Perilla Oil Replacement—W. A. Bush, Feb., 1941, p. 65.
- Making the Most Out of What You Have—G. F. Pickett, June, 1942, p. 360.
- New Developments in Ester Gum—H. C. Woodruff, Oct., 1940, p. 397.
- New Developments in Synthetic Resins for the Varnish Field—V. M. MacNulty, May, 1942, p. 242.
- Oil Polymerization Under the Influence of Resins—R. C. Shuey, Nov., 1938, p. 464.
- Oils in This Warring World—L. J. Reizenstein, Feb., 1941, p. 77.
- Polypentaerythritol Varnishes—H. Burrell, Jan., 1945, p. 36.
- Progress in Natural Resin Research—A. Skett and J. H. Holzberger, June, 1941, p. 346.
- Resin Baking Coatings by Induction Heating—R. J. Moore, Dec., 1945, p. 504.
- Resin Baking Finishes—A Modern Tool of the Paint Maker—H. Greenwood, Feb., 1945, p. 63.
- "Slack Melt" Congo—Its Production and Utility—New York Club, Nov., 1944, p. 531.
- Slow Drying Oil Varnishes: Their Formulation, Processing and Properties—N. N. Kojevnikoff, Apr., 1940, p. 211.
- Slow Drying Oil Varnishes, Their Formulation, Processing and Properties, Part II—N. N. Kojevnikoff, May, 1941, p. 244.
- Soft Oil Resins from the Consumer's Viewpoint—W. T. Walton, May, 1941, p. 279.
- Soft Oil Varnish Formulations Including Drier Stability—C. F. Pickett, June, 1941, p. 316.
- Soft Oils in Varnish Formulation—L. A. Chloupek, Oct., 1941, p. 448.
- Some Aspects in the Bodying of Oils—Chicago Club, *Tech. Proc.*, 1941, p. 71.
- Some Observations on Dehydrated Castor Oils in Varnish Manufacture—Northwestern Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 359.
- Studies in Natural Resin Technology X—C. L. Mantell, A. Skett, R. W. Allan, J. H. Holzberger, C. W. Kopf, Feb., 1939, p. 74.

Official Digest Decennial Index

- A Study of Bodying Dehydrated Castor Oil with Other Oils—C.D.I.C. Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 51.
- A Study of Natural Resins in Combination with Synthetic Resins for Floor Varnishes—New England Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 99.
- A Study of Oleoresinous Film Structure—R. S. Ernst and F. R. McQuilkin, *Tech. Proc.*, 1940, p. 213.
- A Study of Oleoresinous Film Structure, Part II—R. C. Ernst and W. H. Lubbers, *Tech. Proc.*, 1941, p. 131.
- A Study of Some Newer Oils for Varnishes—M. A. Glaser—Chicago Club, Feb., 1944, p. 60.
- A Study of Soya-Tung Combinations—Pittsburgh Club, Dec., 1947, p. 725.
- Suggestions for Formulating Finishes Under Present Conditions—W. T. Pearce, Apr., 1941, p. 202.
- Tall Oil in Surface Coatings—Golden Gate Club, Nov., 1944, p. 517.
- The Thinning of Varnish With Mineral Spirits—Philadelphia Club, *Tech. Proc.*, 1941, p. 7.
- Varnishes—E. J. Cole, Apr., 1944, p. 164.
- Why Do Wrinkles Wrinkle?—Milton Glaser, May, 1945, p. 255.
- Wrinkling—A General Discussion—E. M. Fisher, June, 1945, p. 280.

SPECIALTIES

- Acrylic Resins—W. T. Pearce, Nov., 1941, p. 475.
- Antifouling Paints—A. E. Burns, Jr., July, 1946, p. 309.
- Colloids and the Paint and Varnish Industry—R. J. Moore, Nov., 1938, p. 479.
- Effective Sealing of Knots Under House Paint—Western New York Club, Nov., 1943, p. 411. Disc., p. 372.
- Fire Retardant Paints for Wooden Surfaces—New York Club, Nov., 1946, p. 575.
- Heat Resistant Finishes—Progress Report—Houston Club, Nov., 1946, p. 534.
- Heat Resistant Finishes Report No. III—Houston Club, Dec., 1947, p. 721.
- Improved Bitumen Paints, May 1941, p. 288.

MISCELLANEOUS

- Conservation of Linseed Oil by Substitution—New York Club, Nov., 1943, p. 396.
- Luminescent Coatings—New York Club, Feb., 1942, p. 58. Disc., Nov., 1942, p. 500.
- Luminescent Pigments and Paints—Part II—H. C. Bryson, Mar., 1940, p. 139.
- Marine Primers—L. L. Carrick, Apr., 1947, p. 229.
- The Painting of Brick Surfaces—Pittsburgh Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 63.
- The Painting of Brick Surfaces—II—Pittsburgh Club, *Tech. Proc.*, 1940, p. 139.
- Protective Coatings for Textiles—J. R. Owens, May, 1944, p. 261.
- A Review of Ship Bottom Paints—C. M. Jackson, Jan., 1943, p. 14.
- A Study of the Effects of Various Extenders in Anti-Fouling Paints—New England Club, Nov., 1944, p. 528.
- Suggestions for Formulating Finishes Under Present Conditions—W. T. Pearce, Apr., 1941, p. 202.
- A Suitable Coating for the Interior of Army Drinking Water Tanks—Philadelphia Club, Nov., 1943, p. 405.

TEST METHODS

ADHESION

- Adhesion—A Review—F. M. Damitz, May, 1945, p. 213.
The Adhesion of Surface Coatings on Metals. (IV)—R. L. Savage, W. Von Fischer, and C. F. Prutton, Sept., 1945, p. 344.
The Measurement of Adhesion of Dried Coatings—New York Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 121.
Progress Report on a Study of the Adhesion of Lacquer Films on Metals—R. L. Savage, W. Von Fischer, and C. F. Prutton, Dec., 1942, p. 591.
Quantitative Adhesion Measurement of Coatings Before and After Exposure—New York Club, *Tech. Proc.*, 1940, p. 169.
Quantitative Adhesion Measurement of Coatings Before and After Exposure. (Continuation of 1940 Paper)—New York Club, *Tech. Proc.*, 1941, p. 89.
A Study of the Factors Affecting the Adhesion of Paint Films on Metals—G. Selden and C. F. Prutton, *Tech. Proc.*, 1940, p. 231.
A Study of the Factors Affecting the Adhesion of Paint Films on Metals. Progress Report No. 2—G. Selden and C. F. Prutton, *Tech. Proc.*, 1941, p. 149.

ANALYSIS

- Determination of Solids and Phthalic Anhydride Content of Alkyds—New York Club, Dec., 1944, p. 559.
Fluorescence Analysis, Chapter II—C.D.I.C. Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 337.
Notes on the Qualitative Analysis of Varnishes for Some Commonly Used Types of Resins—Chicago Club, Dec., 1944, p. 599.
Proximate Analysis of Hydrocarbon Thinners—Philadelphia Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 381.
Proximate Analysis of Hydrocarbon Thinners, II—Philadelphia Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 115.
A Rapid Method for Determining Total Pigment in Paints, etc.—St. Louis Club, Dec., 1943, p. 471.
Varnish Oil Developments by Electric Testing Methods—E. Hazlehurst, Sept., 1943, p. 278.

COLOR

- Color Systems—R. Anderson, Oct., 1942, p. 460.
Correlation of Accelerated Weathering with Exterior Exposure of Oil Type Camouflage Paints—D. H. Parker and F. Scofield, May, 1944, p. 220.
Drift in Color Standards—A Spectrophotometric Evaluation of the Can Stability of White Bases and Tinted Paints—New York Club, *Tech. Proc.*, 1941, p. 79.
Measurement of Color Divisions—F. Scofield, May, 1943, p. 194.
Proposed Standards for Determining the Degree of Color Change of Paints and Enamels—Philadelphia Club, Nov., 1945, p. 445.
Simplified Method of Color Specification and Control—L. F. Andrews and J. Biskup, June, 1945, p. 281.
Tint Retention in Olive Drab Paints—Baltimore Club, Nov., 1945, p. 442.

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DRYING TIME

- Driers II—Montreal Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.* No. 568, Nov., 1938, p. 407.
Driers III—Montreal Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 35.
Humidity and Temperature Effects on Protective Coatings. II. Drying of Oils—Cleveland Club, *Tech. Proc.*, 1941, p. 63.
Investigation of Methods for Measuring Drying Time—New York Club, Dec., 1946, p. 658.
The Laboratory Determination of Drying—A. E. Bartlett, Feb., 1945, p. 54.
Loss of Drying Power in Brown Paints (Progress Report)—Kansas City Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct. 1939, p. 11.

EXPOSURE

- Analysis of Paint Decomposition Due to Weathering—H. A. Ball, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 174.
Correlation of Accelerated Weathering with Exterior Exposure of Oil Type Camouflage Paints—D. H. Parker and F. Scofield, May, 1944, p. 220.
The Correlation of the Effect of Varying Climatic Conditions on Typical House Paints and Exterior Enamels—Pittsburgh Club, *Tech. Proc.*, 1941, p. 123.
The Correlation of the Effect of Varying Climatic Conditions on Typical House Paints and Exterior Enamels—Pittsburgh Club, Nov., 1943, p. 417.
An Eight-year Test of Aluminum Primers on Wood—R. I. Wray, May, 1940, p. 263.
Exterior Exposure Tests—A Review—I. Flaumenhaft and J. Weitz, Oct., 1945, p. 361.
A Nomograph For Evaluation of Paint Exposure Panels—N. B. Garlock and E. W. McMullen, Feb., 1946, p. 88.
The Painting of Brick Surfaces, II—Pittsburgh Club, *Tech. Proc.*, 1940, p. 189.
Primers for Magnesium and Aluminum Alloys—II—Golden Gate Club, *Tech. Proc.*, 1940, p. 67.
Proposed Pictorial Standards for Designating Degrees of Failure of Organic Films (Part I)—Philadelphia Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 79.
Report on Camouflage Paint Exposures—New York & Philadelphia Clubs, Dec., 1942, p. 619.
The Significance of Test Fence Exposures—S. Werthan, G. W. Ashman, May, 1938, p. 235.
Study of the Stability of Green Pigments—Philadelphia Club, *Tech. Proc.*, 1940, p. 43.
A Survey of the Methods Used in the South and Southwest for the Testing of Paints and Varnishes—Dallas Club, Dec., 1945, p. 479.
Weathering Machine Correlation in the Cleveland Club Area (Part I)—Cleveland Club, Nov., 1945, p. 454.
Weathering Machine Correlation in the Cleveland Area (Part II)—Cleveland Club, Nov., 1946, p. 518.

FIRE RESISTANCE

- Development of Suitable Fire Tests for Visual Deception Materials Such as Osnaburg Cloth—Cleveland Club, Mar., 1942, p. 123.
Disc., Nov., 1942.

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- Fire Retardant Paints for Steel Surfaces—New York Club, Dec., 1943, p. 435.
Fire-Retardant Paints for Steel Surfaces, II—New York Club, Nov., 1945, p. 408.
Heat Resistant Finishes, Report III—Dec., 1947, p. 721.
High Heat-Resistant Finishes (250°-800° F.)—A Progress Report—Houston Club, Dec., 1945, p. 482.
Reproducibility of the Cabinet Test Method for Fire Retardant Paints on Wood—New York Club, Dec., 1947, p. 756.

HIDING

- Critical Survey of Methods for Measuring Dry Hiding Power of Paint—New York Club, Dec., 1943, p. 485. Disc., Nov., 1943, p. 378.
Determination of Hiding Power by the Spectrophotometer—E. W. McMullen, E. J. Ritchie, and R. L. Bullard, June, 1939, p. 272.
Hiding Power—A Critical Review—E. B. Schuler, Feb., 1946, p. 64.
A Possible Method of Using the Reflectometer to Determine Hiding Power—Toronto Club, Nov., 1946, p. 623.
A Quantitative Evaluation of the Effect of the Pigment-Binder Ratio on the Wet and Dry Opacity of Various Pigments in a Casein Vehicle—Baltimore Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 261.
A Study of the Effect of Pigment Concentration on the Hiding Power of White Pigments—Baltimore Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 27.

SOLVENCY

- Petroleum Napthas and Thinners—R. D. Armsbury, Oct., 1939, p. 366.
Procedure for Evaluating Hydrocarbons as Thinners for Coating Compositions—Philadelphia Club, Dec., 1944, p. 579.
Proximate Analysis of Hydrocarbon Thinners—Philadelphia Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 381.
Proximate Analysis of Hydrocarbon Thinners, II—Philadelphia Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 115.
The Solvency of Petroleum Spirits—S. S. Kurtz, Jr., W. T. Harvey and M. R. Lipkin, Jan., 1940, p. 3.
Viscosity of Synthetic Resin Varnishes in Mixed Hydrocarbon Solvents—Los Angeles Club, *Tech. Proc.*, 1940, p. 131.
The Thinning of Varnish with Mineral Spirits—Philadelphia Club, *Tech. Proc.*, 1941, p. 7.
Viscosity Reduction Method for Commercial Evaluation of Hydrocarbon Solvents for Synthetic Varnish Resins—Los Angeles Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 65.
Viscosity Reduction by Paint Thinners—E. H. McArdle, May, 1945, p. 229.
Viscosity of Synthetic Resin Varnishes in Mixed Hydrocarbon Solvents—Los Angeles Club, *Tech. Proc.*, 1940, p. 131.

MISCELLANEOUS

- Accelerated Alkali Resistance Tests—Western New York Club, Nov., 1945, p. 451.

Official Digest Decennial Index

- Alkali Resistance on V 17 Through V 21 Varnishes—Dallas Club, Dec., 1944, p. 583.
- An Apparatus for the Accelerated Evaluation of Heat-Resisting Paints—G. W. Ashman and S. Werthan, Feb., 1940, p. 63.
- Appearance and Smudge Resistance of Aluminum Paints—New York Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 331.
- Application of Uniform Films—H. F. Payne, Sept., 1944, p. 400.
- Calibration of Gardner-Holdt Air Bubble Viscometers of the Regular Varnish and Heavy Bodied Series—W. T. Harvey, Nov., 1947, p. 616.
- The Cleaning Characteristics of Paints—New York Club, Nov., 1942, p. 485.
- The Cooperative Study of Gloss Measurements—C.D.I.C. Club, Nov., 1945, p. 417.
- A Critical Examination of the A.S.T.M. Standard Method of Test for Oil Absorption of Pigments—New England Club, Dec., 1946, p. 644.
- Determining the Brushability of Paints—New York Club, Dec., 1942, p. 613.
- The Determination of the Melting Points of the Pentaerythritols—J. A. Wyler, June, 1946, p. 260.
- Developments in Domestic Oils—L. J. Reizenstein, Apr., 1940, p. 197.
- Durability of Exterior Finishing Varnishes Over Pigmented Color Coats—Louisville Club, *Tech. Proc.*, 1940, p. 11.
- The Effect of Particle Size on the Tinting Strength of Pigments—G. Barrick, *Tech. Proc.*, 1941, p. 185.
- Effect of Resins on Kauri Reduction—Louisville Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 23.
- The Evaluation of New Varnish or Paint Oils—Philadelphia Club, June, 1947, p. 364.
- Humidity and Temperature Effects on Protective Coatings I—Test Methods—Cleveland Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 15.
- The Influence of Extender Pigments Upon Objective Gloss—A. R. Lukens, C. L. Cummings and V. J. Babel, Sept., 1943, p. 306.
- The Influence of Infra-Red Reflectance Values of Paints on Their Ability and Capacity to Absorb Radiant Energy—New England Club, Nov., 1943, p. 381. *Disc.*, Nov., 1943, p. 374.
- Kauri Reduction Values of Alkyd Resins—Louisville Club, *Tech. Proc.*, 1940, p. 123.
- Measurement of the Fineness of Grind—Baltimore Club, Dec., 1946, p. 631.
- The Measurement of Gloss of Paint Panels—S. C. Horning and M. P. Morse, Mar., 1947, p. 153.
- Method of Test for Permeability to Moisture of Organic Surface Coatings—Standards and Methods of Test Committee, Aug., 1947, p. 479.
- Methods of Mildew Tests—F. Scofield, May, 1946, p. 219.
- Methods for Producing Uniform Films—New York Club, *Tech. Proc.*, 1940, p. 145.
- The Microscope and Its Application in the Paint and Varnish Industry—J. T. Rooney, Feb., 1938, p. 65.
- Microscopy in the Paint Industry—E. J. Dunn, Jr., June, 1945, p. 288.
- New Technic for Measuring Degree of Oxidation in Paint and Vegetable Oils—F. Rugg, *Tech. Proc.*, 1941, p. 197.
- New Uses for a Recording Spectrophotometer—E. W. McMullen and E. J. Ritche, Mar., 1938, p. 117.

Official Digest Decennial Index

- Pigment Settling and Its Measurement—Toronto Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 317.
Predicting the Infra-Red Reflectance of Camouflage Finishes—Los Angeles Club, Dec., 1942, p. 554.
Rheology Factors in the Formulation and Use of Protective Coatings—P. H. Dewey, Aug., 1946, p. 336.
Salt Spray Testing Procedure—W. Wright, May, 1944, p. 212.
Soft Oil Varnish Formulations Including Drier Stability—C. F. Pickett, June, 1941, p. 316.
Some Factors Affecting Drier Activity—C.D.I.C. Club, *Tech. Proc.*, 1941, p. 21.
Some Rheological Properties of Carbon Black Suspensions—J. E. Arnold, Nov., 1947, p. 619.
A Study of Color Change Tolerance—Louisville Club, Dec., 1947, p. 713.
Study of Mildew—Dallas Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 403.
A Study of Oleoresinous Film Structure (Part II)—R. C. Ernst and W. H. Lubbers, *Tech. Proc.*, 1941, p. 131.
A Study of Pigment Dispersion (Part I), Measurement of Fineness of Grind—New York Club, Dec., 1946, p. 633.
Study of the Stability of Green Pigments—Philadelphia Club, *Tech. Proc.*, 1940, p. 43.
Test Methods for Evaluating Paint Fungicides—R. E. Vicklund and M. Manowitz, Dec., 1947, p. 734.
Testing Methods for Determining Paint Settling—A Review—S. Werthan, Sept., 1944, p. 397.
Tests for the Stability of Dipping Varnishes and Enamels (Part II), Varnishes—Cleveland Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 431.
3-1 High Solids Lacquer Test—Philadelphia Club, Dec., 1944, p. 581.
The Use of the Microscope in the Paint Laboratory With Notes on Ultraviolet Light—Louisville Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 209.
Visual and Infra-Red Photographic and Spectrophotometric Study of Pigments and Pigmented Coatings—V. C. Vesce, June, 1943, p. 217.

GENERAL

- Laboratory Control—E. Kropel, May, 1938, p. 247.
Methods of Test (Part 1), (Plant Control)—Philadelphia Club, Dec., 1946, p. 663.
Modern Methods of Paint Testing—C. Y. Hopkins, Feb., 1942, p. 94.
Performance Tests as an Aid in Maintenance of Traffic Paint Quality—S. Werthan, Feb., 1942, p. 75.
Scientific Instruments in the Paint Industry—F. Scofield, Mar., 1946, p. 130.
Survey of Methods for Testing Coating Resins—J. J. Bradley, Jr., Mar., 1947, p. 162.
A Survey of Methods Used in the Federation of Paint and Varnish Production Clubs for the Testing of Paints and Varnishes—Dallas Club, Dec., 1946, p. 653.

EQUIPMENT AND MANUFACTURING

COOKING

- Catalytic Fuel Oils and Electronic Varnish Fire Controls—W. M. Jauch, Oct., 1946, p. 433.

Official Digest Decennial Index

- Chemical Engineering Factors Involved in Heat Bodying and Equipment Trends—T. S. Russell, Jan., 1946, p. 19.
Design and Operation of Direct Fired Units for Resin, Varnish, and Oil Processing—A. Tonkonogy, Sept., 1947, p. 510.
Developments in Oil Processing—W. H. Mattil, Sept., 1943, p. 267.
Fume Disposal Systems—J. Jares, Oct., 1945, p. 367.
Fume Scrubber—Effective on Linseed Oil Kettles—J. C. Dittmer, Sept., 1947, p. 516.
Heat Systems and Controls for Portable Varnish Kettles—W. M. Jauch, June, 1946, p. 255.
Methods of Processing Modified Phenol-Formaldehyde Resins and Oils to Secure Better Solubility—C. F. Pickett, June, 1938, p. 300.
Modern Resin and Varnish Cooking Equipment—M. V. Williams, Aug., 1946, p. 351.
On the Way to Varnish Plant Modernization—H. H. Shuger, May, 1944, p. 315.
Radiant and Direct, Oil and Gas Fired Autoclaves—W. M. Jauch, Mar., 1946, p. 178.
Simple Guides in Varnish Making—W. C. Weber, May, 1938, p. 241.
Slow Drying Oil Varnishes, Their Formulation, Processing and Properties (Part II)—N. N. Kojevnikoff, May, 1941, p. 244.
Some Aspects in the Bodying of Oils—Chicago Club, *Tech. Proc.*, 1941, p. 71.
Some Aspects of Vehicle Manufacturing in Set Kettles and Stills—T. F. Byron, June, 1947, p. 359.
Some Observations on Dehydrated Castor Oils in Varnish Manufacture Northwestern Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 359.
A Study of Bodying Dehydrated Castor Oil With Other Oils (Part II)—C.D.I.C. Club, *Tech. Proc.*, 1940, p. 59.
Varnish Kettles From the Manufacturer's Viewpoint—A. Hock, Mar., 1940, p. 120.
Varnish Losses in Weight and in Volume—Chicago Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 3.
Varnishes—E. J. Cole, Apr., 1944, p. 164.

GRINDING

- Color Strength and Texture Development by Roller Mill Grinding—New York Club, *Tech. Proc.*, 1941, p. 99.
Developments in the Dispersion of Carbon Black—L. J. Venuto, Mar., 1940, p. 159.
An Evaluation of Surface-Active Agents in Pigment Grinding, II—Detroit Club, *Tech. Proc.*, 1940, p. 31.
Grinding Mills—J. C. Moore, May, 1944, p. 308.
Grinding Tests Made With the Marco "Kom-bi-nator"—N. T. Phelps, Dec., 1946, p. 681.
Lacquer Paste Grinding on the Three Roller Mill—Toronto Club, *Tech. Proc.*, 1940, p. 115.
Materials and Equipment Problems—G. H. Wescott, May, 1945, p. 254.
A New Approach to the Evaluation of Wetting, Grinding, and Dispersing Aids—A. E. Bartlett, Feb., 1945, p. 76.
New Developments in the Grinding of Paint Products—R. L. Cawood, Mar., 1940, p. 127.
Paint Processing—Post-War, Ball and Pebble Mills—O. H. Garlick, May, 1945, p. 251.
Paint Processing—Post-War, Hydraulic Control of Roller Mills—G. A. Vasel, May, 1945, p. 250.

Official Digest Decennial Index

- Paint Processing—Post-War, Mixing and Dispersing—Powers, J. R., May, 1949, p. 248.
A Particle Size Distribution Approach to Paint Dispersions—S. W. Martin, Sept., 1942, p. 396.
Pebble and Ball Mill Grinding—A Review—V. R. Olson, June, 1944, p. 340.
Preliminary Notes on an Improved Method of Grinding Paints—H. A. Gardner, May, 1939, p. 208.
Report of Processing and Equipment Group of M. and M. Committee—J. C. Moore, Dec., 1944, p. 613.
Roller Mill Grinding—M. R. Sentman, Mar., 1941, p. 124.
Roller Mill Grinding—A Review—R. D. Bonney, June, 1944, p. 345.
Some Observations of Wetting and Dispersion Agents—C. A. Knauss, Jan., 1939, p. 15.
Stone Mill Operation—R. W. Matlack, Apr., 1944, p. 160.
Texture of Dry Colors in Relation to Mill Base Production—H. A. Reddy, Mar., 1941, p. 144.

GENERAL

- Design of a Modern Varnish Plant—Philadelphia Club, Oct., 1946, p. 414.
Mixing and Grinding—W. Lynch, May, 1938, p. 244.
Paint Plant Manufacturing Equipment—J. C. Moore, May, 1946, p. 212.
Paint Processing—Post-War, Mixing and Dispersing—J. R. Powers, May, 1945, p. 248.
Production Methods and Material Handling—V. C. Bidlack, May, 1946, p. 208.
Straining and Clarification—G. A. Bresler, Dec., 1946, p. 678.
Thinning, Tinting, Screening and Filling of Ready Mixed Paint—R. Whitcomb, May, 1938, p. 252.
The Thinning of Varnish With Mineral Spirits—Philadelphia Club, *Tech. Proc.*, 1941, p. 7.

RAW MATERIALS

OILS

- Dehydrated Castor
Behavior of Certain Oil-Resin Combinations—Baltimore Club, *Tech. Proc.*, 1940, p. 103.
Drying Oils: Their Present Status and Future Prospects—G. Eisen-schimi, Mar., 1941, p. 116.
Linseed Oil for Tung and Perilla Oil Replacement—W. A. Bush, Feb., 1941, p. 65.
New Synthetic Drying Oils from Canadian Raw Materials—O. M. Behr, Jan., 1941, p. 11.
The New Zinc Resinates, Including Their Use With Wood Oil Substi-tutes—E. Edelstein, Mar., 1940, p. 133.
Oils in This Warring World—L. J. Reizenstein, Feb., 1941, p. 77.
Slow Drying Oil Varnishes: Their Formulation, Processing and Proper-ties—N. N. Kojevnikoff, Apr., 1940, p. 211.
Some Aspects in the Bodying of Oils—Chicago Club, *Tech. Proc.*, 1941, p. 71.
Some Observations on Dehydrated Castor Oils in Varnish Manufacture Northwestern Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 359.
A Study of Bodying Dehydrated Castor Oil With Other Oils—C.D.I.C. Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 51.

Official Digest Decennial Index

A Study of Bodying Dehydrated Castor Oil With Other Oils, II—C.D.I.C. Club, *Tech. Proc.*, 1940, p. 59.

Fish

Drying Oils: Their Present Status and Future Prospects—G. Eisen-schimpl, Mar., 1941, p. 116.

The Economics of Fish Oil—L. Reizenstein, May, 1940, p. 252.

Fish Oils—A. J. Anderson, Nov., 1938, p. 467.

Linseed Oil for Tung and Perilla Oil Replacement—W. A. Bush, Feb., 1941, p. 65.

Manufactured Drying Oils—O. M. Behr, Apr., 1940, p. 203.

New Paint Oils—O. M. Behr, Sept., 1938, p. 415.

New Synthetic Drying Oils from Canadian Raw Materials—O. M. Behr, Jan., 1941, p. 11.

Oils in This Warring World—L. J. Reizenstein, Feb., 1941, p. 77.

Painting With Fish Oils—L. J. Reizenstein, May, 1938, p. 220.

Slow Drying Oil Varnishes: Their Formulation, Processing and Prop-erties—N. N. Kojevnikoff, Apr., 1940, p. 211.

Some Aspects in the Bodying of Oils—Chicago Club, *Tech. Proc.*, 1941, p. 71.

A Study of Bodying Dehydrated Castor Oil With Other Oils, II—C.D.I.C. Club, *Tech. Proc.*, 1940, p. 59.

Linseed

Behavior of Certain Oil-Resin Combinations—Baltimore Club, *Tech. Proc.*, 1940, p. 103.

Conservation of Linseed Oil By Substitution—New York Club, Nov., 1943, p. 396.

Drying Oils: Their Present Status and Future Prospects—G. Eisen-schimpl, Mar., 1941, p. 116.

The Effect of Rubber Accelerators and Other Catalysts on the Heat Bodying of Vegetable Oils—Northwestern Club, *Tech. Proc.*, 1940, p. 23.

Linseed Oil for Tung and Perilla Oil Replacement—W. A. Bush, Feb., 1941, p. 65.

Oils in This Warring World—L. J. Reizenstein, Feb., 1941, p. 77.

Peroxide Formation and Induction Periods of Linseed Oils and Paints—R. D. Johnson, *Tech. Proc.*, 1941, p. 171.

Properties of Bodied Linseed Oil—J. J. Mattiello, Apr., 1943, p. 102.

Disc., May, 1943, p. 164.

Some Aspects in the Bodying of Oils—Chicago Club, *Tech. Proc.*, 1941, p. 71.

A Study of Bodying Dehydrated Castor Oil With Other Oils, II—C.D.I.C. Club, *Tech. Proc.*, 1940, p. 59.

Substitutes for Linseed Oil in Exterior Paints—New York Club, Mar., 1943, p. 78.

Suggestions on Linseed Oil Conservation—H. A. Gardner, Apr., 1943, p. 90.

The Use of Kettle Bodied Oils in House Paints to Conserve Linseed Oil—H. A. Nelson, Apr., 1943, p. 98. Disc., May, 1943, p. 160.

Oiticica

Behavior of Certain Oil-Resin Combinations—Baltimore Club, *Tech. Proc.*, 1940, p. 103.

Cicoil—C. Holdt, Mar., 1939, p. 126.

Drying Oils: Their Present Status and Future Prospects—G. Eisen-schimpl, Mar., 1941, p. 116.

Linseed Oil for Tung and Perilla Oil Replacement—W. A. Bush, Feb., 1941, p. 65.

Official Digest Decennial Index

- The New Zinc Resinates, Including Their Use With Wood Oil Substitutes—E. Edelstein, Mar., 1940, p. 133.
- Slow Drying Oil Varnishes: Their Formulation, Processing and Properties—N. N. Kojevnikoff, Apr., 1940, p. 211.
- Some Aspects in the Bodying of Oils—Chicago Club, *Tech. Proc.*, 1941, p. 71.
- Perilla**
- Behavior of Certain Oil-Resin Combinations—Baltimore Club, *Tech. Proc.*, 1940, p. 103.
- Drying Oils: Their Present Status and Future Prospects—G. Eisen-schimi, Mar., 1941, p. 116.
- Slow Drying Oil Varnishes: Their Formulation, Processing and Properties—N. N. Kojevnikoff, Apr., 1940, p. 211.
- Slow Drying Oil Varnishes: Their Formulation, Processing and Properties (Part II)—N. N. Kojevnikoff, May, 1941, p. 244.
- Soybean**
- Drying Oils: Their Present Status and Future Prospects—G. Eisen-schimi, Mar., 1941, p. 116.
- The Effect of Rubber Accelerators and Other Catalysts on the Heat Bodying of Vegetable Oils—Northwestern Club, *Tech. Proc.*, 1940, p. 23.
- Oils in This Warring World—L. J. Reizenstein, Feb., 1941, p. 77.
- Soybean Oil in Flat Wall Paint—Chicago Club, *Tech. Proc.*, 1940, p. 3.
- Soybean Oil in Interior Enamels—Chicago Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 389.
- The Soybean—Myth or Miracle—S. O. Sorenson, Apr., 1947, p. 238.
- A Study of Bodying Dehydrated Castor Oil With Other Oils, II—C.D.I.C. Club, *Tech. Proc.*, 1940, p. 59.
- Tall**
- Lignin Liquor and Its Uses in Protective Coatings—E. C. Alford, Feb., 1942, p. 66.
- Tall Oil in Surface Coatings—Golden Gate Club, Nov., 1944, p. 517.
- Tall Oil in Surface Coatings, II—Golden Gate Club, Dec., 1945, p. 490.
- Tung**
- Behavior of Certain Oil-Resin Combinations—Baltimore Club, *Tech. Proc.*, 1940, p. 103.
- Changes in Wood Oil and Tung Oil on Prolonged Storage—G. Eisen-schimi, Apr., 1946, p. 170.
- Drying Oils: Their Present Status and Future Prospects—G. Eisen-schimi, Mar., 1941, p. 116.
- Elimination of China Wood Oil From Varnish Formulation—Dallas Club, Nov., 1940, p. 439.
- Manufactured Drying Oils—O. M. Behr, Apr., 1940, p. 203.
- Slow Drying Oil Varnishes: Their Formulation, Processing and Properties—N. N. Kojevnikoff, Apr., 1940, p. 211.
- Slow Drying Oil Varnishes: Their Formulation, Processing and Properties (Part II)—N. N. Kojevnikoff, May, 1941, p. 244.
- Tung Oil Conservation—C. F. Pickett, Oct., 1939, p. 354.
- General**
- The Changing Picture of Synthetic Drying Oils—J. E. Good, Apr., 1943, p. 121.
- The Chemistry of Bodied Oils—T. F. Bradley, Jan., 1941, p. 23.
- The Chemists Contribution to the Field of Drying Oils During the War—E. H. Valance, Apr., 1946, p. 183.
- Conservation of Oil Through Substitutes—New York Club, May, 1943, p. 168.

Official Digest Decennial Index

- Developments in Domestic Oils—L. J. Reizenstein, Apr., 1940, p. 197.
Driers—A Review—G. Fearnley, Mar., 1945, p. 132.
Driers—A Review—G. Fearnley, Oct., 1945, p. 365.
Driers, V—Montreal Club, Dec., 1944, p. 566.
Drying Oil Polymerization—T. F. Bradley, Oct., 1947, p. 552.
Drying Oil Research—S. O. Sorenson, May, 1944, p. 283.
Heat Bodied Oils—A Review—H. Feinberg, Baltimore Club, Mar., 1946, p. 112.
The Influence of Metallic Driers on Certain Properties of Linseed-Replacement Oils—C. C. Hartman and E. F. Hickson, May, 1944, p. 227.
The Newer Varnish Oils—J. C. Konen, May, 1945, p. 240.
Oil Conservation—C. Rose, Apr., 1943, p. 91.
Petroleum Drying Oil in Exterior Paints—E. W. McMullen, May, 1943, p. 166.
Postwar Developments in Synthetics—J. E. Good, Dec., 1943, p. 473.
Postwar Prospects for Drying Oils—O. Eisenschiml and G. Eisenschiml, Jan., 1945, p. 26.
Protective Coatings in Wartime—L. J. Reizenstein, Apr., 1942, p. 218.
Recent Developments in the Processing of Drying Oils—J. H. Greaves, June, 1944, p. 359.
Soft Oil Resins from the Consumer's Viewpoint—W. T. Walton, May, 1941, p. 279.
Soft Oil Varnish Formulations Including Drier Stability—C. F. Pickett, June, 1941, p. 316.
A Study of Polymerized Oils—Los Angeles Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 363.
A Study of Some Newer Oils for Varnishes—M. A. Glaser, Chicago Club, Feb., 1944, p. 60.
Suggestions for Formulating Finishes Under Present Conditions—W. T. Pearce, Apr., 1941, p. 202.
Summary of Protective Coatings: Raw Materials Situation With Special Reference to Drying Oils—A. C. Goetz, May, 1943, p. 147.
Symposium on the Use of Bodied Oils in Exterior House Paint—Philadelphia Club, Apr., 1943, p. 89.
Trends in Protective Coatings—L. J. Reizenstein, Jan., 1943, p. 1.

DRIERS

- Chemicals Affecting Loss of Drying—New York Club, Dec., 1942, p. 546.
Driers, II—Montreal Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 407.
Driers, III—Montreal Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 35.
Driers, IV—Montreal Club, Nov., 1942, p. 489.
Driers, V—Montreal Club, Dec., 1944, p. 566.
Driers—A Review—G. Fearnley, Mar., 1945, p. 132.
Driers—A Review—G. Fearnley, Oct., 1945, p. 365.
Driers in Relation to Synthetics—H. C. Bryson, Feb., 1939, p. 90.
Loss of Drying Time in Paints—Montreal Club, *Tech. Proc.*, 1941, p. 121.
The Effect of Driers on the Chemical and Water Resistance of Aged Varnish Films—G. W. Gregg and L. E. Anderson, July, 1947, p. 421.
The Efficiency of Driers at Elevated Temperatures—A. C. Mueller, Apr., 1943, p. 128.

Official Digest Decennial Index

- The Influence of Metallic Driers on Certain Properties of Linseed-Replacement Oils—C. C. Hartman and E. F. Hickson, May, 1944, p. 227.
Octoate Driers—G. Fearnley, Dec., 1946, p. 690.
Soft Oil Varnish Formulations Including Drier Stability—C. F. Pickett, June, 1941, p. 316.
Some Factors Affecting Drier Activity—C.D.I.C. Club, *Tech. Proc.*, 1941, p. 21.

PIGMENTS

White

- Acicular Zinc Oxide—J. H. Calbeck, A. C. Eide and M. K. Easley, Sept., 1941, p. 392.
Chalk-Resistant Titanium Dioxides: Their Use in Enamels—D. H. Dawson, Apr., 1941, p. 188.
Chemicals Affecting Loss of Drying—New York Club, Dec., 1942, p. 546.
Conservation of Titanium Dioxide by the Selection of Inerts and Vehicles—Chicago Club, Dec., 1942, p. 543.
A Dozen Uses for Zinc Oxide in Paint—H. A. Nelson, Apr., 1939, p. 159.
Grades of Titanium Dioxide: Their Properties and Uses—D. W. Robertson and J. A. Lutz, Sept., 1940, p. 343.
House Paint Formulation with Chalk-Resistant Titanium Pigments—W. H. Hoback, June, 1940, p. 304.
Influence of Variations of Barium Sulfate Extender Particle Size on the Hiding Power of Titanium Dioxide Paints—H. D. Piper, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 199.
Leaded Zinc Oxides: Their Composition, Properties and Manufacture—A. C. Eide and H. A. Depew, Mar., 1939, p. 138.
Manufacture of Lithopone—K. Mowlds, Mar., 1938, p. 125.
Modern Developments in White Lead—J. E. Hilton and A. Nutton, Feb., 1940, p. 70.
Modern Trends in House Paint Formulations—W. G. Vannoy, Apr., 1944, p. 177.
A Particle Size Distribution Approach to Paint Dispersions—S. W. Martin, Sept., 1942, p. 396.
Peroxide Formation and Induction Periods of Linseed Oils and Paints—R. D. Johnson, *Tech. Proc.*, 1941, p. 169.
Photochemical Reactions Sensitized by White Pigments—C. L. Rollinson, May, 1940, p. 259.
Pigmentation of Postwar Paints—D. H. Dawson and F. E. Bolton, Dec., 1943, p. 463.
Progress and Development in Titanium Pigments—A. N. C. Bennett and W. Woodhall, Mar., 1944, p. 130.
Rutile Calcium Base Pigments—W. B. Anderson, June, 1941, p. 332.
Rutile Titanium Dioxide Pigments—D. H. Dawson, Mar., 1942, p. 135.
Rutile Titanium Dioxide in Specification Paints—D. H. Dawson and R. E. Troutman, Apr., 1943, p. 136. *Disc.*, Sept., 1943, p. 290.
Some Factors Affecting Drier Activity—C.D.I.C. Club, *Tech. Proc.*, 1941, p. 21.
Some Notes on Zinc Oxide in an Alkyd Vehicle—A. C. Eide and H. A. Depew, Mar., 1940, p. 152.
A Study of the Effect of Pigment Concentration on the Hiding Power of White Pigments—Baltimore Club, *Nat. Paint, Varnish, Lacquer, Assn., Sci. Sect. Cir.*, Oct., 1939, p. 27.

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Titanium Dioxide: Its Manufacture and Uses—D. H. Dawson, May, 1938, p. 225.

Zinc Oxide—As You Like It—S. Werthan, May, 1941, p. 267.

Zinc Oxide: Its Manufacture and Uses in the Paint Industry—H. E. Outcault, Apr., 1943, p. 112.

Color

A Comparison of Flushed and Dry Colors—St. Louis Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 299.

Current Dry Color Development—H. A. Reddy, June, 1939, p. 305.

Developments in the Dispersion of Carbon Black—L. J. Venuto, Mar., 1940, p. 159.

Meeting the Demand for Better Dry Colors—C. Grove, Jan., 1938, p. 36.

Notes on Coloring Power of Pigments—H. L. Beakes, June, 1947, p. 350.

A New Process Red Lead—A. Brookes, June, 1938, p. 312.

Organic Toners in Olive Drab Paints—Baltimore Club, May, 1943, p. 196.

Pigment Colors—A Review—A. E. Kromer, Jan., 1946, p. 2.

The Pigmentation of Green Exterior Trim Paints—D. H. Parker, Oct., 1940, p. 380.

Practical Application Values of Some Chemical Dry Colors—H. A. Reddy, May, 1939, p. 216.

Principles of Exterior Trim Paint Formulation—D. H. Parker and E. W. Cronin, May, 1942, p. 273.

Some Factors Affecting Drier Activity—C.D.I.C. Club, *Tech. Proc.*, 1941, p. 21.

Some New Slants on Dry Colors—D. H. Parker, Sept., 1939, p. 340.

Some Trends of the Dry Color Industry—H. A. Reddy, Sept., 1942, p. 414.

Stability of Red Pigments, II—Philadelphia Club, Apr., 1939, p. 165.

Study of the Stability of Green Pigments—Philadelphia Club, *Tech. Proc.*, 1940, p. 43.

A Study of the Use of Flushed Colors in Architectural and Industrial Finishes—Detroit Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 427.

Texture of Dry Colors in Relation to Mill Base Production—H. A. Reddy, Mar., 1941, p. 144.

Yellow Pigments—J. Barker and J. K. Barraclough, May, 1939, p. 235.

Extender

Calcium Carbonate Inert Pigments—A. R. Lukens, Apr., 1941, p. 211.

A Comparison of East and West Coast Talcs and Mineral Spirits—Los Angeles Club, Dec., 1944, p. 577.

Critical Factors in the Selection of Extender Pigments—R. L. McCleary, July, 1946, p. 291.

Extender Pigments—V. Babel, Oct., 1942, p. 463.

The Geology, Chemistry, and Utility of California Talcs—R. Lamar, Sept., 1944, p. 393.

House Paint Extenders—W. G. Vannoy, Dec., 1945, p. 558.

Inert Pigments and Their Effects in Flat Paints—New England Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 445.

The Influence of Extender Pigments Upon Objective Gloss—A. R. Lukens, C. L. Cummings and V. J. Babel, Sept., 1943, p. 306.

Micalith-G in Primers—R. Shutt, Apr., 1945, p. 191.

A Study of the Effects of Various Extenders in Anti-Fouling Paints—New England Club, Nov., 1944, p. 528.

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Miscellaneous

- Aluminum—H. A. Tallon, Jan., 1945, p. 19.
The Effect of Pigments on Oleoresinous Film Structure—R. C. Ernst and G. R. Eudaley, Dec., 1942, p. 575.
An Eight-year Test of Aluminum Primers of Wood—R. I. Wray, May, 1940, p. 263.
Luminescent Coatings—New York Club, Feb., 1942, p. 58. Disc., Nov., 1942, p. 500.
Luminescent Pigments and Paints (Part I)—H. C. Bryson, Feb., 1940, p. 49.
Luminescent Pigments and Paints (Part II)—H. C. Bryson, Mar., 1940, p. 139.
Luminous Paint Pigments—S. O. White, Oct., 1942, p. 458.
Luminous Paints—May, 1941, p. 288.
Preliminary Study on Alteration of the Surface Properties of Commercial Carbon Blacks—C. A. Murray and F. E. Bartell, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No.*, 568, Nov., 1938, p. 251.
Optical Properties of Pigments in the Visual and Near Infra-Red—H. A. Endres, June, 1943, p. 202.
Water-Insoluble Soaps—W. A. Young, Sept., 1942, p. 429.
The Wetting of Pigments by Linseed Oils and Paint Vehicles—C. A. Murray and F. E. Bartell, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 151.

RESINS

Alkyd

- Alkyd Resins—1940 Model—L. K. Scott, Mar., 1940, p. 105.
Determination of Solids and Phthalic Anhydride Content of Alkyds—New York Club, Dec., 1944, p. 559.
The Effect of Particle Size on the Tinting Strength of Pigments—G. Barrick, *Tech. Proc.*, 1941, p. 183.
Kauri Reduction Values of Alkyd Resins—Louisville Club, *Tech. Proc.*, 1940, p. 123.
The Manufacture of Alkyd Resins—C. D. Thurmond, Apr., 1945, p. 181.
Modified Alkyd Resins—W. F. Whitescarver, Jan., 1943, p. 7.
New Standards in Baking Finishes—H. F. Payne, Dec., 1945, p. 527.
Oils in This Warring World—L. J. Reizenstein, Feb., 1941, p. 77.
Physical and Chemical Relationship of Melamine, Urea, and Alkyd Resins—E. H. Trussell, May, 1941, p. 257.
The Role of Synthetic Resin in War and Postwar Finishes—W. F. Whitescarver, Feb., 1944, p. 81.
Some Notes on Zinc Oxide in an Alkyd Vehicle—A. C. Eide and H. A. Depew, Mar., 1940, p. 152.
Suggestions for Formulating Finishes Under Present Conditions—W. T. Pearce, Apr., 1941, p. 202.
Synthetic Resins in the Present Emergency—J. McE. Sanderson, Oct., 1941, p. 443.
3-1 High Solids Lacquer Test—Philadelphia Club, Dec., 1944, p. 581.
Trends in Protective Coatings—L. J. Reizenstein, Jan., 1943, p. 1.
Viscosity of Synthetic Resin Varnishes in Mixed Hydrocarbon Solvents—Los Angeles Club, *Tech. Proc.*, 1940, p. 131.
Where We Stand With Alkyd Resins—E. H. Trussell, Sept., 1946, p. 283.

Phenolic

- "Bakelite" Resins in Postwar Coatings—K. V. McCullough, Oct., 1944, p. 443.

Official Digest Decennial Index

- Behavior of Certain Oil-Resin Combinations—Baltimore Club, *Tech. Proc.*, 1940, p. 103.
Colloidal Aspects of Dispersion as Applied to Paint and Varnish—R. J. Moore, Feb., 1939, p. 83.
Dispersion Resins and Their Utilization—W. R. Catlow, Nov., 1947, p. 419.
Oil Polymerization Under the Influence of Resins—R. C. Shuey, Nov., 1938, p. 464.
Oils in This Warring World—L. J. Reizenstein, Feb., 1941, p. 77.
The Phenolic Resin Picture—C. T. O'Connor, Sept., 1946, p. 286.
Resin Baking Coatings by Induction Heating—R. J. Moore, Dec., 1945, p. 504.
Soft Oil Resins From the Consumer's Viewpoint—W. T. Walton, May, 1941, p. 279.
Soft Oil Varnish Formulations Including Drier Stability—C. F. Pickett, June, 1941, p. 316.
Synthetic Resins in the Present Emergency—J. McE. Sanderson, Oct., 1941, p. 443.
The Use of Bakelite Oil Soluble Resins in Paint, Varnishes and Enamels—F. J. R. Bowman, Apr., 1938, p. 180.

Natural

- Congo Resin—A. Skett, Jan., 1944, p. 24.
Progress in Natural Resin Research—A. Skett and J. H. Holzberger, June, 1941, p. 346.
Recent Developments in Natural Resins Technology—A. Skett and R. W. Allan, Jan., 1938, p. 31.
Shellac, Its History, Manufacture and Uses—E. B. Cordon, May, 1939, p. 228.
Shellac and Some of Its Uses in Protective Coatings—W. H. Gardner, Nov., 1938, p. 473.
"Slack Melt" Congo: Its Production and Utility—New York Club, Nov., 1944, p. 531.
Studies in Natural Resin Technology, VIII—C. L. Mantell and A. Skett, Apr., 1938, p. 195.
Studies in Natural Resin Technology, IX—C. L. Mantell, A. Skett, J. H. Holzberger and R. W. Allan, Sept., 1938, p. 386.
A Study of Natural Resins in Combination With Synthetic Resins for Floor Varnishes—New England Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 99.

Rosin Derivatives

- Behavior of Certain Oil-Resin Combinations—Baltimore Club, *Tech. Proc.*, 1940, p. 103.
Fourth Report of the New Zinc Resinates in Paint and Varnish—E. Edelstein, Apr., 1939, p. 182.
Further Studies in the Use of New Forms of Zinc Resinate in Paint and Varnish—E. Edelstein, Nov., 1938, p. 493.
New Developments in Ester Gum—H. C. Woodruff, Oct., 1940, p. 397.
New Developments in Synthetic Resins for the Varnish Field—V. M. MacNulty, May, 1942, p. 242.
New Zinc Resinates in Protective Coatings—E. Edelstein, Nov., 1939, p. 398.
The New Zinc Resinates, Including Their Use With Wood Oil Substitutes—E. Edelstein, Mar., 1940, p. 133.
Pentalyn Resins—F. G. Oswald, Mar., 1941, p. 136.
Pentek: Its History and Applications—T. M. O'Neil, Nov., 1947, p. 596.

Official Digest Decennial Index

- Rosin and Terpene Derivatives in the War—F. G. Oswald, Jan., 1944, p. 7.
- A Terpene Resin and Its Use in Varnishes—B. S. Pressburg, Apr., 1940, p. 197.
- Trends in the Development of Rosin-Base Resins—F. G. Oswald, Oct., 1944, p. 458.
- The Values of New Forms of Zinc Resinate in Phenolic and Alkyd Varnishes—E. Edelstein, June, 1938, p. 337.
- Wood Naval Stores Industry—W. Garvie, Feb., 1939, p. 59.
- Other Synthetics**
- Acrylic Resins—W. T. Pearce, Nov., 1941, p. 475.
- A-Resin—O. C. Slotterbeck, Dec., 1946, p. 691.
- A Brief Outline of the Developments of Urea Formaldehyde for Coatings—H. C. Cheetham, Mar., 1938, p. 135.
- Chlorinated Rubber—P. F. Robb, Jan., 1939, p. 13.
- Condensed Imagination—J. McE. Sanderson, Apr., 1939, p. 151.
- The Evaluation of Synthetic Rubbers in Organic Protective Coatings—Philadelphia Club, Nov., 1944, p. 501.
- Heat-Reactive Hydrocarbon Resins and Oils—W. J. Sparks, J. D. Garber and O. C. Slotterbeck, Dec., 1945, p. 552.
- New Applications for Synthetic Resins—O. Jordan, Oct., 1938, p. 432.
- New Bases for Coating and Plastic Compositions—P. L. Nichols, Jr., R. M. Hamilton, L. T. Smith and E. Yanovsky, Mar., 1945, p. 111.
- A New Technique in Coatings—"Vinylite" Resin Dispersions—G. M. Powell, Dec., 1946, p. 696.
- Organo-Silicon Compounds—Chicago Club, Nov., 1945, p. 424.
- Physical and Chemical Relationship of Melamine, Urea and Alkyd Resins—E. H. Trussell, May, 1941, p. 257.
- Polymeric Hydrocarbons for Surface Coatings—O. C. Slotterbeck and D. W. Young, Nov., 1944, p. 511.
- Polymeric Resins in Surface Coatings—A. K. Doolittle, Nov., 1939, p. 409.
- Report to M. and M. Committee—F. Atwood, Dec., 1944, p. 612.
- Silicone Resins in Protective and Decorative Coatings, II—J. R. Patterson, Oct., 1946, p. 439.
- Silicone Resins in Protective and Decorative Finishes—J. R. Patterson, July, 1946, p. 281.
- Silicone Resins in Protective and Decorative Finishes—Progress Report III—J. R. Patterson, Mar., 1947, p. 144.
- Soft Oil Resins from the Consumer's Viewpoint—W. T. Walton, May, 1941, p. 279.
- Paint Chemists and New Resins—J. McE. Sanderson, Jan., 1938, p. 13.
- Plastics and Emulsions—F. Atwood, May, 1944, p. 276.
- Notes on the Use of Synthetic Resins—W. C. Norris, May, 1939, p. 231.
- General**
- Investigation of Aqueous Acrysol, Geon and Saran Dispersions—Chicago Club, Nov., 1946, p. 503.
- The Next Decade—J. McE. Sanderson, W. C. Norris and E. H. Trussell, May, 1938, p. 255.
- Notes on the Qualitative Analysis of Varnishes for Some Commonly Used Types of Resins—Chicago Club, Dec., 1944, p. 599.
- Protective Coatings in Wartime—L. J. Reizenstein, Apr., 1942, p. 218.
- Technology and Manufacture of Hard Synthetic Coating Resins—W. R. Husen, Feb., 1947, p. 84.
- The Production of Oil Soluble Resins for Paints and Varnishes—C. A. Redfarn, Jan., 1938, p. 5.

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SOLVENTS

- A Comparison of East and West Coast Talcs and Mineral Spirits—Los Angeles Club, Dec., 1944, p. 577.
Composition of High Solvency Hydrocarbon Thinners—E. H. McArdle, J. C. Moore, H. D. Terrell and E. C. Haines, June, 1939, p. 299.
The Fundamental Technology of Petroleum Solvents—E. M. Toby, May, 1938, p. 261.
The Future of Petroleum Hydrocarbons and Petroleum Derivatives in the Protective Coating Industry—E. M. Toby, Jr., Feb., 1944, p. 90.
Lacquer Solvents from Petroleum—R. A. A. Morley, June, 1941, p. 361.
Mineral Thinners—C. W. Irwin, May, 1942, p. 263.
New Developments in Solvent and Plasticizer Technology—W. A. Woodcock, Apr., 1946, p. 172.
New Solvents and Plasticizers for Surface Coatings—W. A. Woodcock, Dec., 1945, p. 518.
Petroleum Naphthas and Thinners—R. D. Armsbury, Oct., 1939, p. 366.
Petroleum Solvents—A Review—W. P. Colio, Philadelphia Club, Jan., 1946, p. 10.
Specialty Coatings and the Nitroparaffins—R. L. Ericsson, Dec., 1943, p. 478.
The Thinning of Varnish with Mineral Spirits—Philadelphia Club, *Tech. Proc.*, 1941, p. 7.
"Viscosity Reduction Method" for Commercial Evaluation of Hydrocarbon Solvents for Synthetic Varnish Resins—Los Angeles Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 65.
Viscosity Reduction by Paint Thinners—E. H. McArdle, May, 1945, p. 229.

PLASTICIZERS

- Comparison of Recently Developed Plasticizers for Nitrocellulose—Chicago Club, Dec., 1945, p. 493.
Comparison of Recently Developed Plasticizers for Nitrocellulose (Part II)—Chicago Club, Nov., 1946, p. 488.
New Developments in Solvent and Plasticizer Technology—W. A. Woodcock, Apr., 1946, p. 172.
New Solvents and Plasticizers for Surface Coatings—W. A. Woodcock, Dec., 1945, p. 518.
Cellulose Esters and Ethers—J. K. Speicher, May, 1944, p. 288.

MISCELLANEOUS

- Anti-Skinning Agents—Montreal Club, Nov., 1946, p. 563.
Colloidal Phenomenon of Metallic Soaps Used in the Protective Coatings Industry—F. J. Licata, Mar., 1938, p. 128.
The Effect of Rubber Accelerators and Other Catalysts on the Heat Bodying of Vegetable Oils—Northwestern Club, *Tech. Proc.*, 1940, p. 23.
Ethyl Cellulose—J. T. Skelley, Jan., 1939, p. 7.
An Evaluation of Surface-Active Agents in Pigment Grinding—Detroit Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct. 1939, p. 43.
An Evaluation of Surface-Active Agents in Pigment Grinding, II—Detroit Club, *Tech. Proc.*, 1940, p. 31.
Material and Manufacturing Committee Report—Cincinnati Meeting, April 22, 1944, V. C. Bidlack, May, 1944, p. 269.

Official Digest Decennial Index

- A New Approach to the Evaluation of Wetting, Grinding and Dispersing Aids—A. E. Bartlett, Feb., 1945, p. 76.
Review of New Raw Materials—V. C. Bidlack, July, 1947, p. 419.
A Study of Anti-Oxidants and Anti-Skinning Agents—Cleveland Club, Dec., 1945, p. 484.
A Study of Fire Resistant House Paints Made With Chlorinated Paraffin—C.D.I.C. Club, Nov., 1946, p. 512.
A Study of Pigment Dispersions in Paint Vehicles—G. D. Selden and A. H. Selker, Apr., 1940, p. 194.
What Every Paint and Varnish Chemist Should Know About Fungicides—Dec., 1945, p. 570.

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- Applying Coatings Electrostatically—H. Ransburg, May, 1944, p. 242.
Can Coating Machinery—W. A. Wright and W. McGowan, May, 1944, p. 335.
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Laboratory Problems in the Insulated Wire Industry—Sept., 1945, p. 342.
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Painting of Southern Yellow Pine, Round Table Discussion—Southern Club, May, 1947, p. 283.
Painting of Steel Ships—C. Hamilton, Oct., 1946, p. 443.
Planned Finishes for Cash Registers—F. H. Pfarrer, May, 1944, p. 250.
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- The Effect of Infrared Radiation Upon an Oleoresinous Enamel, IV—R. C. Ernst and J. I. Stevens, Dec., 1945, p. 537.
Infrared Finishing Ovens—I. J. Barber, June, 1947, p. 386.
Physical and Chemical Relationship of Melamine, Urea and Alkyd Resins—E. H. Trussell, May, 1941, p. 257.
Resin Baking Coatings by Induction Heating—R. J. Moore, Dec., 1945, p. 504.

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Effective Sealing of Knots Under House Paint—Western New York Club, Nov., 1943, p. 411. Disc., Nov., 1943, p. 372.
Metal Primers—Surface Preparation of Metals—W. J. Greco, Mar., 1944, p. 115.
New Concepts of Fundamental Causes of Paint Perishing—J. R. MacGregor, Feb., 1938, p. 77.
Observations on Naval Painting Practice—H. H. Nelson, Nov., 1943, p. 414.
The Painting of Brick Surfaces—Pittsburgh Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 63.
Primers for Non-Ferrous Metals, I—Golden Gate Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 93.
A Study of the Factors Affecting the Adhesion of Paint Films on Metals—G. Selden and C. F. Prutton, *Tech. Proc.*, 1940, p. 231.

Official Digest Decennial Index

- A Study of the Factors Affecting the Adhesion of Paint Films on Metals. Progress Report No. 2—G. Selden and C. F. Prutton, *Tech. Proc.*, 1941, p. 147.
Surface Preparation of Structural Steel—A Review—G. Diehlman, Apr., 1945, p. 167.

MISCELLANEOUS

- Acid Number, Viscosity and Livering Characteristics of Bodied Linseed Oil—L. Gussman, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 191.
Anti-Shatter Coatings for Windows—May, 1941, p. 287.
Anti-Shatter Lacquer for Glass—May, 1941, p. 286.
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Beyond the Blue Horizon—P. O. Blackmore, Dec., 1943, p. 482.
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Catalytic Isomerization of Vegetable Oils—S. B. Radlove, H. M. Teeter and J. C. Cowan, Feb., 1947, p. 74.
The Chemistry of Bodied Oils—T. F. Bradley, Jan., 1941, p. 23.
Colloid Chemistry and the Paint and Varnish Industry—E. A. Hauser, Jan., 1946, p. 16.
Colloidal Aspects of Dispersion as Applied to Paint and Varnish—R. J. Moore, Feb., 1939, p. 83.
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Economic Aspects of Fats and Oils in 1940—K. Brandt, Nov., 1940, p. 431.
The Effect of Temperature and Humidity on Paint Films—V. Gordon, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 211.
Factors Influencing Initial Gloss and Gloss Retention of Alkyd Films—V. N. Sheets, June, 1939, p. 287.
Film Formation, Film Properties, Film Deterioration—J. S. Long, Apr., 1946, p. 150.
Floating or Flooding of Pigments—A Review—H. W. Dell, July, 1946, p. 306.
Further Observations of Wetting and Dispersion—R. F. Bowles, Nov., 1947, p. 634.
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Lighting and Painting—A. C. Atherton, Mar., 1942, p. 82.
The Loss of Drying Power of Black Paints Caused by Aging—J. E. Rose and H. A. Bennett, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 163.
Lustreless Finishes for Wood—P. A. Metz and S. E. Beck, May, 1943, p. 189.
Marburg Lecture—Abstract—J. J. Mattiello, (V. J. Babel, abstractor), Jan., 1947, p. 42.
Mildew Problems of Interest to the Paint, Varnish and Lacquer Manufacturers—P. G. Benignus, June, 1947, p. 379.
New Navy Paint Specifications—H. L. Aldrich, May, 1943, p. 186.

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- Paint as a Material of War—A. I. Totten, Jr., May, 1943, p. 179.
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The Paint Production Man's Contribution to the War Effort—J. C. Moore, Dec., 1943, p. 425.
Painter Apprentice School Problem—O. K. Sieplein, Feb., 1947, p. 86.
Paints as Moisture Barriers—A. C. Elm, Apr., 1947, p. 197.
Peroxide Formation and Induction Periods of Linseed Oils and Paints—R. D. Johnson, *Tech. Proc.*, 1941, p. 169.
Photochemical Reactions Sensitized by White Pigments—C. L. Rollinson, May, 1940, p. 259.
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Progress Made in the French Paint and Varnish Industry During the German Occupation—Jan., 1947, p. 264.
Protection Against Fading Offered by Various Types of Paint Films—Pittsburgh Club, Dec., 1943, p. 462. Disc., Nov., 1943, p. 374.
Report of Committee 43 of the New York Club (Luminescent Coatings)—New York Club, Nov., 1942, p. 493.
Report on Flight Deck Coatings—New England, Philadelphia and Baltimore Clubs, Dec., 1943, p. 431.
Revision of Camouflage Paint Specification T-1093A—New York Club, Apr., 1942, p. 207.
The Role of the Artist in Camouflage—C. Syer, Sept., 1941, p. 417.
S.S.F.A. Round Table Discussion (Questions and Answers)—G. Priest, Mar., 1942, p. 119.
The Sequence of Events in the Fouling of Submerged Surfaces—C. E. Zobell, Sept., 1938, p. 379.
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Some Physical Aspects of Drying Oil Resin Systems—C. T. O'Connor and A. R. Schuster, Jan., 1939, p. 21.
Some Principles of Color Tinting—H. L. Beakes, June, 1947, p. 371.
Specifications for Paint Used By Army Ordnance—C. R. Cornthwaite, Nov., 1943, p. 407.
Specifications of the War Department—A. I. Totten, Jr., Feb., 1943, p. 30.
A Study of Color Preference—Louisville Club, Nov., 1946, p. 549.
A Study of Oleoresinous Film Structure—R. C. Ernst and F. R. McQuilkin, *Tech. Proc.*, 1940, p. 211.
A Study of Oleoresinous Film Structure (Part II)—R. C. Ernst and W. H. Lubbers, *Tech. Proc.*, 1941, p. 129.
A Survey of Certain Research Problems in Paint and Varnish—New York Club, *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No.* 568, Nov., 1938, p. 371.
A Survey of Some Applications of Various Principles of Colloidal Chemistry to the Chemistry of Paints—H. D. Piper, Feb., 1940, p. 68.
Synthetic Resins Come of Age—W. F. Whitescarver, Dec., 1943, p. 428.
Viscosity Changes in Storage of Paints Containing Basic Pigments—Los Angeles Club, Nov., 1946, p. 539.
War Production Board—Protective Coatings Branch—Its Orders and Allocations—T. J. Craig, May, 1944, p. 206.
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CLUB PAPERS

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- Behavior of Certain Oil-Resin Combinations—*Tech. Proc.*, Oct., 1940, p. 103.
Heat Bodied Oils—A Review—Mar. 1946, p. 112.
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Measurement of the Fineness of Grind—Dec., 1946, p. 631.
Organic Toners in Olive Drab Paints—May, 1943, p. 196.
A Quantitative Evaluation of the Effect of the Pigment-Binder Ratio on the Wet and Dry Opacity of Various Pigments in a Casein Vehicle—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 261.
The Relation Between the Reflectance and Hiding Power of Flat Wall Paints—*Tech. Proc.*, 1941, p. 3.
Report on Flight Deck Coatings—Dec., 1943, p. 431.
A Study of the Effect of Pigment Concentration on the Hiding Power of White Pigments—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 27.
Tint Retention in Olive Drab Paints—Nov., 1945, p. 442.

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A Report by the Chicago Club on Project No. 2—Apr., 1942, p. 208.
Some Aspects in the Bodying of Oils—*Tech. Proc.*, 1941, p. 71.
Soybean Oil in Flat Wall Paint—*Tech. Proc.*, Oct., 1940, p. 3.
Soybean Oil in Interior Enamels—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 389.
A Study of Some Newer Oils for Varnishes—Feb., 1944, p. 60.
Varnish Losses in Weight and in Volume—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 3.

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- The Cooperative Study of Gloss Measurements—Nov., 1945, p. 447.
The Effect of Common Organic Acids on the Viscosity of Enamels Containing Zinc Oxide—Dec., 1944, p. 563.
Fluorescence Analysis—Chapter II—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 337.
Some Factors Affecting Drier Activity—*Tech. Proc.*, 1941, p. 21.
A Study of Bodying Dehydrated Castor Oil With Other Oils—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 51.
A Study of Bodying Dehydrated Castor Oil With Other Oils, II—*Tech. Proc.*, Oct., 1940, p. 59.
A Study of Fire Resistant House Paints Made With Chlorinated Paraffin—Nov., 1946, p. 512.

CLEVELAND

- Development of Suitable Fire Tests for Visual Deception Materials Such as Osnaburg Cloth—Mar., 1942, p. 123. *Disc.*, Nov., 1942, p. 503.

Official Digest Decennial Index

- Humidity and Temperature Effects on Protective Coatings, I—Test Methods—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 15.
Humidity and Temperature Effects on Protective Coatings, II—Drying of Oils—*Tech. Proc.*, 1941, p. 63.
A Study of Anti-Oxidants and Anti-Skinning Agents—Dec., 1945, p. 484.
Tests for the Stability of Dipping Varnishes and Enamels—Part II, Varnishes—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No.* 568, Nov., 1938, p. 431.
Weathering Machine Correlation in the Cleveland Club Area—Part I—Nov., 1945, p. 454.
Weathering Machine Correlation in the Cleveland Area—Part II—Nov., 1946, p. 518.

DALLAS

- Alkali Resistance on V17 through V21 Varnishes—Dec., 1944, p. 583.
Elimination of China Wood Oil from Varnish Formulation—Nov., 1940, p. 439.
Study of Mildew—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No.* 568, Nov., 1938, p. 403.
A Survey of Methods Used in the Federation of Paint and Varnish Production Clubs for the Testing of Paints and Varnishes—Dec., 1946, p. 653.
A Survey of the Methods Used in the South and Southwest for the Testing of Paints and Varnishes—Dec., 1945, p. 479.

DETROIT

- An Evaluation of Surface-Active Agents in Pigment Grinding—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 43.
An Evaluation of Surface-Active Agents in Pigment Grinding—II—*Tech. Proc.*, Oct., 1940, p. 31.
A Study of the Use of Flushed Colors in Architectural and Industrial Finishes—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No.* 568, Nov., 1938, p. 427.

GOLDEN GATE

- Floor Paint Vehicles—Dec., 1946, p. 669.
Lead in Enamel Vehicles: Variation of Resins—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No.* 568, Nov., 1938, p. 345.
Primers for Magnesium and Aluminum Alloys—II—*Tech. Proc.*, Oct., 1940, p. 67.
Primers for Magnesium and Aluminum Alloys—III—Dec., 1944, p. 602.
Primers for Non-Ferrous Metals—I—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 93.
Tall Oil in Surface Coatings—Nov., 1944, p. 517.
Tall Oil in Surface Coatings—Dec., 1945, p. 490.

HOUSTON

- Heat Resistant Finishes—Progress Report—Nov., 1946, p. 534.
Heat Resistant Finishes—Report No. 3—Dec., 1947, p. 721.
High Heat-Resistant Finishes (250°-800° F.)—A Progress Report—Dec., 1945, p. 482.

KANSAS CITY

- Health Hazards in the Paint, Varnish and Lacquer Industry—*Tech. Proc.*, 1941, p. 67.
Loss of Drying Power in Brown Paints—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 11.

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- A Comparison of East and West Coast Talcs and Mineral Spirits—Dec., 1944, p. 577.
Predicting the Infra-Red Reflectance of Camouflage Finishes—Dec., 1942, p. 534.
A Study of Polymerized Oils—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 363.
Viscosity Changes in Storage of Paints Containing Basic Pigments—Nov., 1946, p. 539.
"Viscosity Reduction Method" for Commercial Evaluation of Hydro-Carbon Solvents for Synthetic Varnish Resins—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 65.
Viscosity of Synthetic Resin Varnishes in Mixed Hydrocarbon Solvents—*Tech. Proc.*, Oct., 1940, p. 131.

LOUISVILLE

- Durability of Exterior Finishing Varnishes Over Pigmented Color Coats—*Tech. Proc.*, Oct., 1940, p. 11.
Effect of Resins in Kauri Reduction—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 23.
Kauri Reduction Values of Alkyd Resins—*Tech. Proc.*, Oct., 1940, p. 123.
A Study of Color Change Tolerance—Dec., 1947, p. 713.
A Study of Color Preference—Nov., 1946, p. 549.
The Use of the Microscope in the Paint Laboratory With Notes on Ultraviolet Light—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 209.

MONTREAL

- Anti-Skinning Agents—Nov., 1946, p. 563.
Driers II—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 407.
Driers III—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 35.
Driers IV—Nov., 1942, p. 489.
Driers V—Dec., 1944, p. 566.
Layout of a Modern Paint and Varnish Plant—Nov., 1945, p. 395.
Loss of Drying Time in Paints (Progress Report)—*Tech. Proc.*, 1941, p. 121.

NEW ENGLAND

- A Critical Examination of the A.S.T.M. Standard Method of Test for Oil Absorption of Pigments—Dec., 1946, p. 644.
Inert Pigments and Their Effects in Flat Paints—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 445.
The Influence of Infra-Red Reflectance Values on Their Ability Capacity to Absorb Radiant Energy—Nov., 1943, p. 381. Disc., Nov., 1942, p. 505; Nov., 1943, p. 374.
Report on Flight Deck Coatings—Dec., 1943, p. 431.
A Study of the Effects of Various Extenders in Anti-Fouling Paints—Nov., 1944, p. 528.
A Study of Natural Resins in Combination With Synthetic Resins for Floor Varnishes—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 99.
A Study of Primers for Ferrous Metals in an Atmospheric Exposure—Progress Report No. I—Nov., 1945, p. 393.
A Study of Primers for Ferrous Metals in an Atmospheric Exposure—Progress Report No. II—Nov., 1946, p. 566.

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A Study of Primers for Ferrous Metals in an Atmospheric Exposure—
Progress Report No. III—Dec., 1947, p. 745.

NEW YORK

- Appearance and Smudge Resistance of Aluminum Paints—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 331.
Chemicals Affecting Loss of Drying—Dec., 1942, p. 546.
The Cleaning Characteristics of Paints—Nov., 1942, p. 485.
Color Strength and Texture Development by Roller Mill Grinding—*Tech. Proc.*, 1941, p. 97.
Conservation of Linseed Oil by Substitution—Nov., 1943, p. 396.
Conservation of Linseed Oil by Substitution—Nov., 1944, p. 520.
Conservation of Oil Through Substitutes—May, 1943, p. 168.
Critical Survey of Methods for Measuring Dry Hiding Power of Paint—Dec., 1943, p. 485. Disc., Nov., 1943, p. 378.
Determination of Solids and Phthalic Anhydride Content of Alkyds—Dec., 1944, p. 559.
Determining the Brushability of Paints—Dec., 1942, p. 613.
Drift in Color Standards—A Spectrophotometric Evaluation of the Can Stability of White Bases and Tinted Paints—*Tech. Proc.*, 1941, p. 79.
Fire-Retardant Paints for Steel Surfaces—Dec., 1943, p. 435. Disc., Nov., 1943, p. 369.
Fire-Retardant Paints for Steel Surfaces—Part II—Nov., 1945, p. 408.
Fire-Retardant Paints for Wooden Surfaces—Nov., 1946, p. 575.
Investigation of Methods for Measuring Drying Time—Dec., 1946, p. 658.
Luminescent Coatings—Feb., 1942, p. 58. Disc., Nov., 1942, p. 500.
The Measurement of Adhesion of Dried Coatings—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 121.
Methods of Producing Uniform Films—*Tech. Proc.*, Oct., 1940, p. 143.
Quantitative Adhesion Measurement of Coatings Before and After Exposure—*Tech. Proc.*, Oct., 1940, p. 167.
Quantitative Adhesion Measurement of Coatings Before and After Exposure. (Continuation of 1940 Paper)—*Tech. Proc.*, 1941, p. 87.
Report on Camouflage Paint Exposures—Dec., 1942, p. 619.
Report of Committee 43 of the New York Club (Luminescent Coatings)—Oct., 1942, p. 493.
Reproducibility of the Cabinet Test Method for Fire-Retardant Paints on Wood—Dec., 1947, p. 756.
Revision of Camouflage Paint Specification T-1093A—Apr., 1942, p. 207.
"Slack Melt" Congo—Its Production and Utility—Nov., 1944, p. 531.
A Study of Pigment Dispersion—Part I. Measurement of Fineness of Grind—Dec., 1946, p. 633.
Substitutes for Linseed Oil in Exterior Paints—Mar., 1943, p. 78.
A Survey of Certain Research Problems in Paint and Varnish—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 371.

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- An Attempt to Improve the Washability of Water Reducible Paints With Treated Pigments—Dec., 1947, p. 704.
Do Varnish Films Lose Chemical and Water Resistance on Aging?—Dec., 1944, p. 590.
The Effect of Rubber Accelerators and Other Catalysts on the Heat Bodying of Vegetable Oils—*Tech. Proc.*, Oct., 1940, p. 23.

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Some Observations on Dehydrated Castor Oils in Varnish Manufacture—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 359.

PHILADELPHIA

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The Evaluation of Synthetic Rubber in Organic Protective Coatings—II—Nov., 1946, p. 615.
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Procedure for Evaluating Hydrocarbons as Thinners for Coating Compositions—Dec., 1944, p. 579.
Proposed Pictorial Standards for Designating Degrees of Failure of Organic Films—Part I—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 79.
Proposed Standards for Determining the Degree of Color Change in Paints and Enamels—Nov., 1945, p. 445.
Proximate Analysis of Hydrocarbon Thinners—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 381.
Proximate Analysis of Hydrocarbon Thinners—II—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 115.
Report on Camouflage Paint Exposures—Dec., 1942, p. 619.
Report on Flight Deck Coatings—Dec., 1943, p. 431.
Stability of Red Pigments—II—Apr., 1939, p. 165.
Stability of White Pigments in Colored Enamel Tints—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 271.
Study of the Stability of Green Pigments—*Tech. Proc.*, Oct., 1940, p. 43.
A Suitable Coating for the Interior of Army Drinking Water Tanks—Nov., 1943, p. 405.
Symposium on the Use of Bodied Oils in Exterior House Paints—Apr., 1943, p. 89.
The Thinning of Varnish With Mineral Spirits—*Tech. Proc.*, 1941, p. 7.
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The Use of Cellulose Derivatives in Water Paints—Nov., 1945, p. 405.

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The Correlation of the Effect on Varying Climatic Conditions on Typical House Paints and Exterior Enamels—*Tech. Proc.*, 1941, p. 123.
The Correlation of the Effect of Varying Climatic Conditions on Typical House Paints and Exterior Enamels—Nov., 1943, p. 417.
Leafing Properties of Aluminum Vehicles—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 309.
The Painting of Brick Surfaces—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 63.
The Painting of Brick Surfaces—II—*Tech. Proc.*, Oct., 1940, p. 139.
Protection Against Fading Offered by Various Types of Paint Films—Dec., 1943, p. 462.
A Study of Soya-Tung Combinations—Dec., 1947, p. 725.

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A Comparison of Flushed and Dry Colors—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 299.

A Rapid Method for Determining Total Pigment in Paints, Etc.—Dec., 1943, p. 471.

TORONTO

Lacquer Paste Grinding on the Three Roller Mill—*Tech. Proc.*, Oct., 1940, p. 115.

Pigment Settling and Its Measurement—*Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 317.

A Possible Method of Using the Reflectometer to Determine Hiding Power—Nov., 1946, p. 623.

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- BALL, H. A.—Analysis of Paint Decomposition Due to Weathering. *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 174.
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- BARTELL, F. E.—Preliminary Study on Alteration of the Surface Properties of Commercial Carbon Blacks. *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir. No. 568*, Nov., 1938, p. 251.
- BARTELL, F. E.—The Wetting of Pigments by Linseed Oils and Paint Vehicles. *Nat. Paint, Varnish, Lacquer Assn., Sci. Sect. Cir.*, Oct., 1939, p. 151.

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- BARTLETT, A. E.—The Laboratory Determination of Drying, Feb., 1945, p. 54.
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- PIPER, H. D.—A Survey of Some Applications of Various Principles of Colloidal Chemistry to the Chemistry of Paints (An Abstract), Feb., 1940, p. 68.
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- PRUTTON, C. F. AND SELDEN, G.—A Study of the Factors Affecting the Adhesion of Paint Films on Metals. Progress Report No. 2, *Tech. Proc.*, 1941, p. 147.
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SELDEN, G. AND PRUTTON, C. F.—A Study of the Factors Affecting the Adhesion of Paint Films on Metals, *Tech. Proc.*, Oct., 1940, p. 229.
SELDEN, G. AND PRUTTON, C. F.—A Study of the Factors Affecting the Adhesion of Paint Films on Metals. Progress Report No. 2, *Tech. Proc.*, 1941, p. 147.
SELDEN, G. D. AND SELKER, A. H.—A Study of Pigment Dispersions in Paint Vehicles, Apr., 1940, p. 194.
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